

New York State Department of Transportation

Yellow Flag NB22CTW007

By: Rehan Afridi

Flag Date: March 30, 2022

Superseding Information:

This flag supersedes: YF NB2158W004

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: March 30, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: April 13, 2022

Reviewed By: Robert Kemp

Date: April 13, 2022

Attachments: 9

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 164			
	107 - Steel Open Girder/Beam	729	ft
	PR831 - Steel Beam End	34	each

Flagged Condition Description

This Yellow Flag NB22CTW007 supersedes previously issued Yellow Flag No. NB2158W004.

Location: Span 164 Stringer S1 at Pier 164, above sidewalk along 38th street.

Description: The transverse support beam connected to the left face of Girder G1 supporting the end of Stringer S1 in Span 164 adjacent to Pier 164 exhibits a 4" long crack (no change in condition) in the lower web and 13" long (12" previously noted) sheared/misaligned portion of the upper web (Refer to sketch for details). The sheared/misaligned portion and crack are both located directly below Stringer S1. The crack in the weld is located right above the bottom flange. The sheared/misaligned portion of the web is located right below the top flange angles.

The remaining length of the transverse support beam exhibits moderate corrosion with up to 15% section loss at the lower web adjacent to the connection to Girder G1 (Photo 6). There is no significant change in the condition.

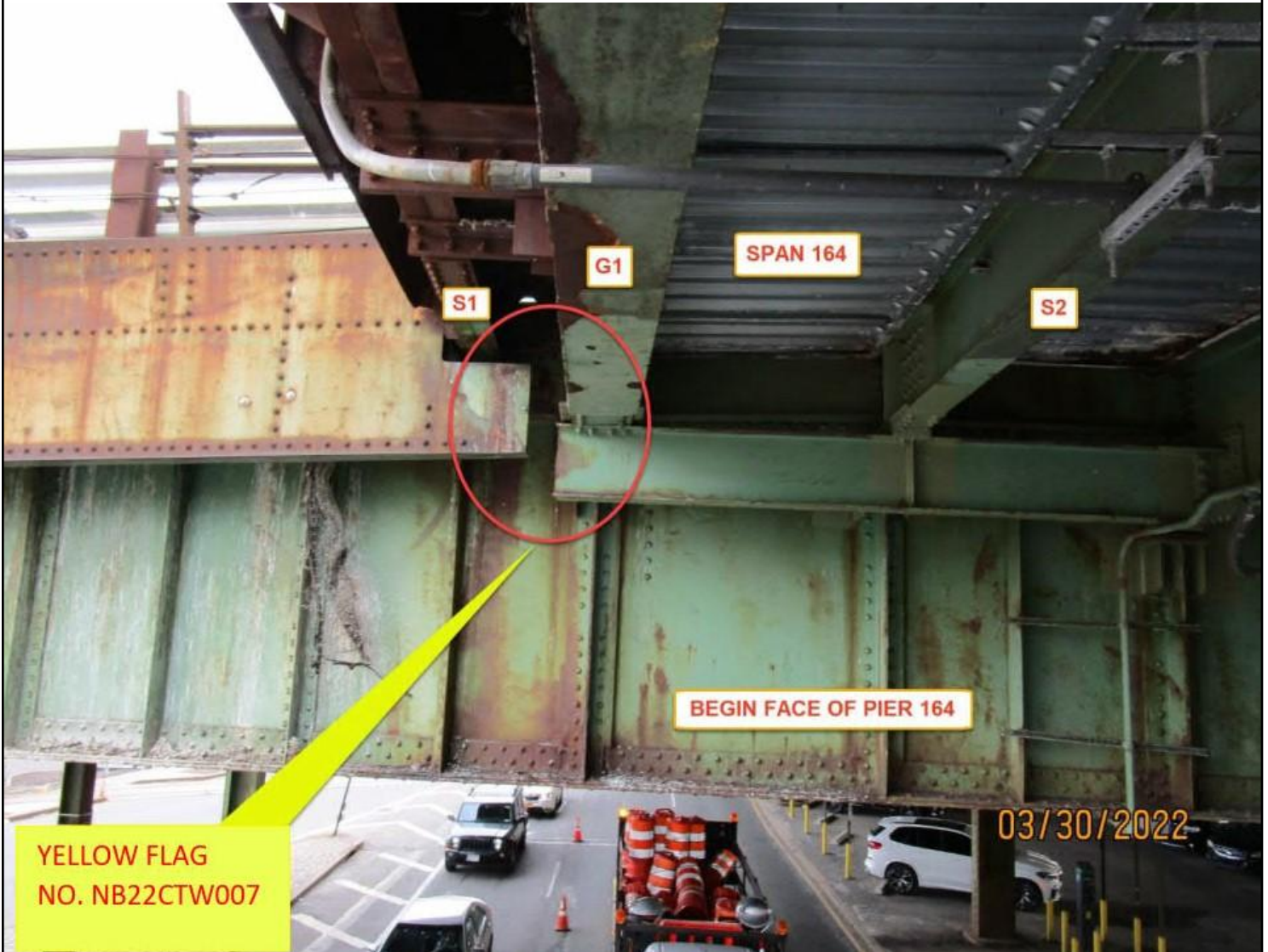
Notes:

1. The bottom flange of Stringer S1 beyond the bearing area at the transverse support beam exhibits up to 40% section loss for 2" long for the full width of the flange with 1" diameter corrosion hole at each side (Photo 7). The left bearing stiffener exhibits 2" diameter corrosion hole at the bottom of the stiffener. These conditions are the same as reported in the last inspection.
2. The Stringer S1 supports the barrier/railing above on I-278 WB direction.
3. The flagged condition was accessed using 30ft bucket truck with double lane closure.
4. The flagged condition is located above the center lane on 3rd Avenue WB direction.

Flag Photographs

Photo Number: 1

Photo Filename: Photo 1-RA-608-0341-edit.jpg



Attachment Description: General view of the flagged condition at the transverse support beam below Stringer S1 in Span 164 at Pier 164. Looking End.

Photo Number: 2

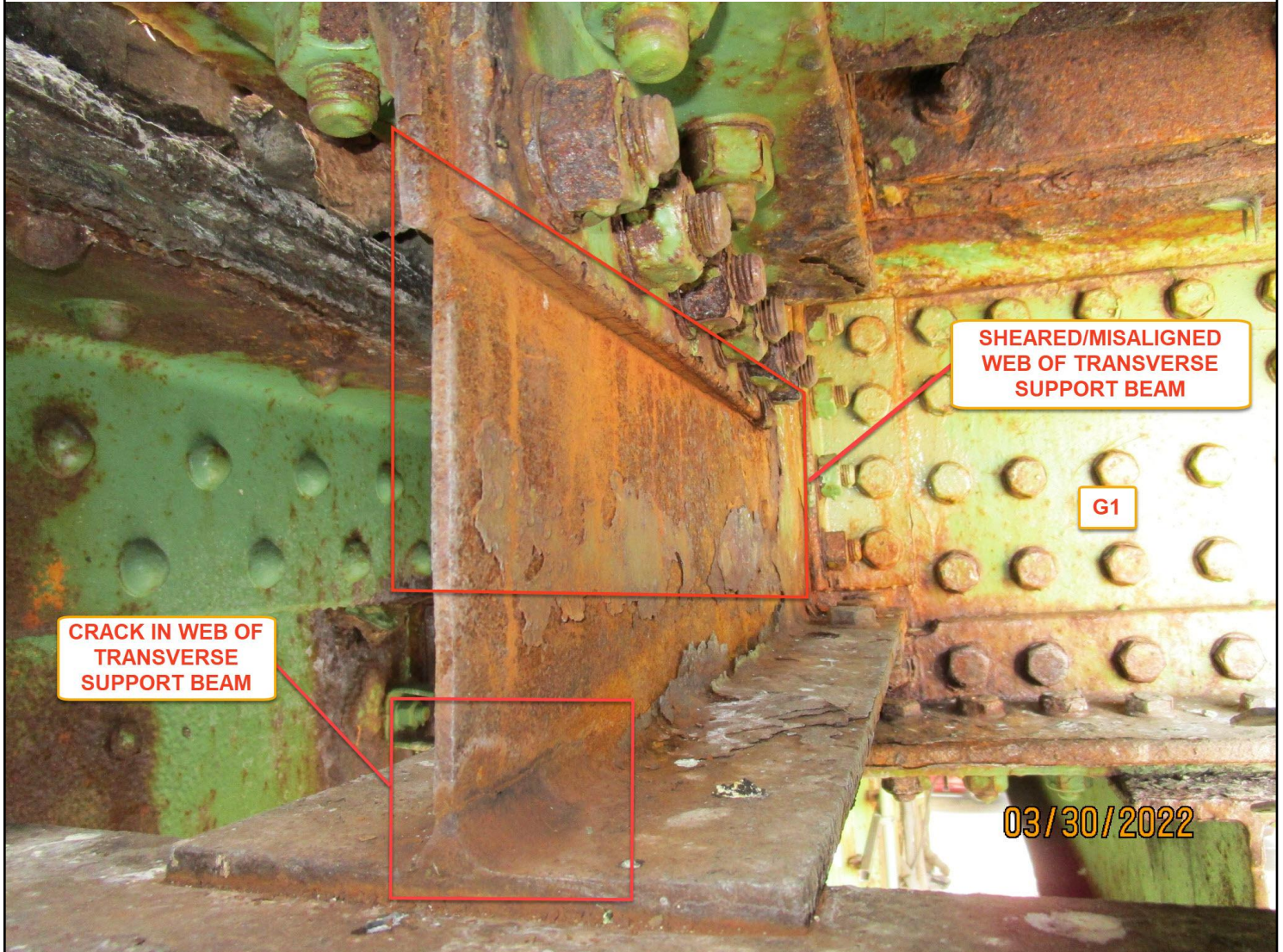
Photo Filename: Photo 2-RA 608_0343.jpg



Attachment Description: Close up general view of the flagged condition at the transverse support beam below Stringer S1 in Span 164 at Pier 164. Looking End.

Photo Number: 3

Photo Filename: Photo 3-RA 608_0350.jpg



Attachment Description: The begin face of the transverse support beam below Stringer S1 in Span 164 at Pier 164. The stringer web exhibits crack in the lower web and sheared/misaligned portion of the upper web. Looking End and Right.

Photo Number: 4

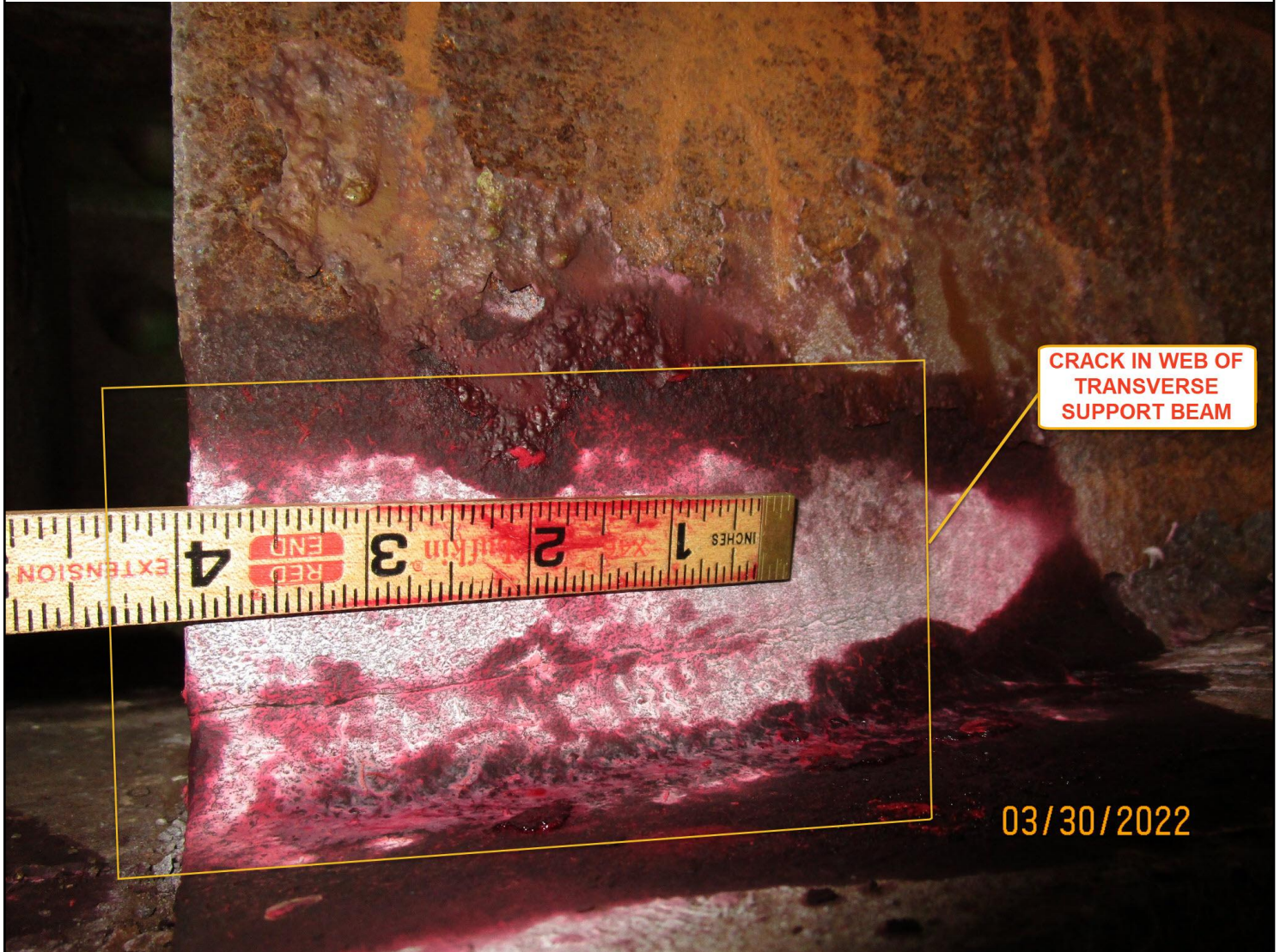
Photo Filename: Photo 4-RA 608_0351.jpg



Attachment Description: The left end of the transverse support beam below Stringer S1 in Span 164 at Pier 164. The upper web below the top flange angles exhibit sheared/misaligned portion of the web. Looking Right.

Photo Number: 5

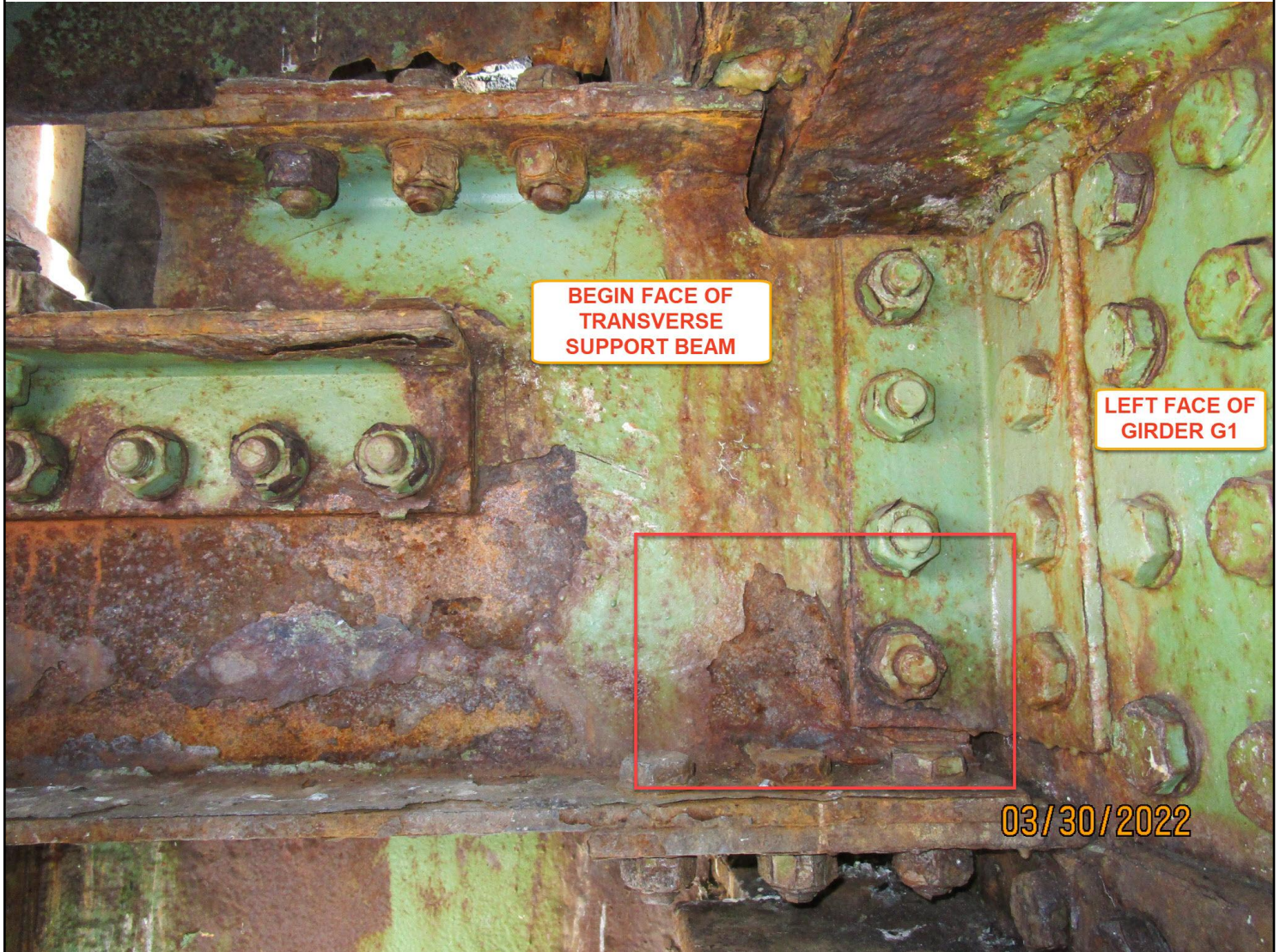
Photo Filename: Photo 5-RA 608_0357.jpg



Attachment Description: The bottom portion of the transverse support beam below Stringer S1 in Span 164 at Pier 164. The lower web above the bottom flange exhibits crack in the web. Looking End and Right.

Photo Number: 6

Photo Filename: Photo 6-RA 608_0345.jpg



Attachment Description: The begin face of the transverse support beam below Stringer S1 connected to Girder G1 in Span 164 at Pier 164. The remaining length of the transverse support beam exhibits moderate corrosion with section loss. Looking End.

Photo Number: 7

Photo Filename: Photo 7-RA 608_0347.jpg



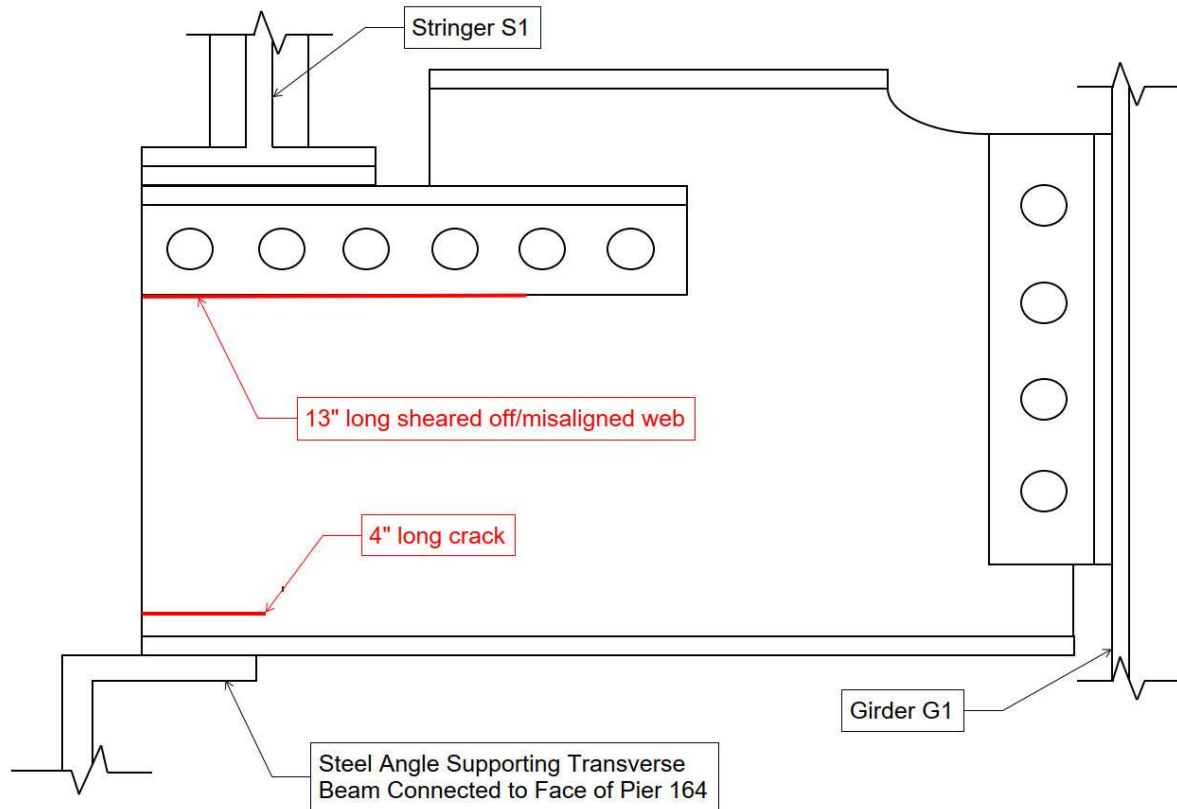
Attachment Description: The end of Stringer S1 beyond the bearing area at the transverse support beam in Span 164 at Pier 164. The bottom flange exhibits section loss for the full width of the flange with one corrosion hole at each side of the flange. Looking Right.

Photo Number: 8

Photo Filename: SN 164 S1 at Pier 164 Sketch.jpg

DATE 03/30/2021

TEAM LEADER Rehan Afridi, P.E. ASSISTANT TEAM LEADER Marcos Perez



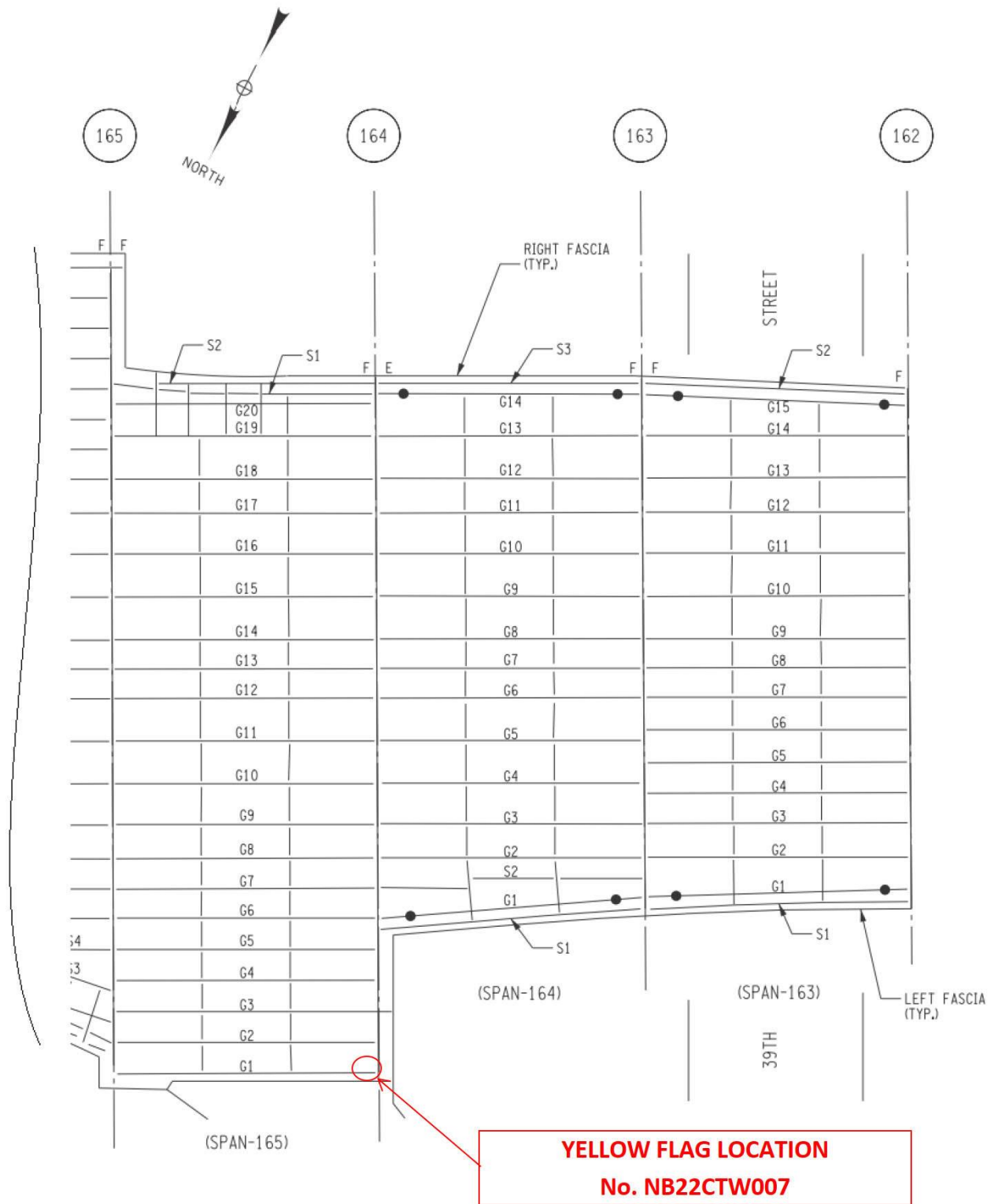
**Begin Face of Transverse Support Beam Below
Stringer S1 Sketch in Span 164 at Pier 164**

N.T.S.

Attachment Description: SN 164 S1 at Pier 164 Sketch

Photo Number: 9

Photo Filename: SN 164 S1 at Pier 164 Framing Plan edit.jpg



Attachment Description: SN 164 S1 at Pier 164 Framing Plan